# VAM Labs, Inc.

**1106 Camellia Drive Munster, IN 46408**PHONE (219) 924-7877

May 8, 2008

City of East Chicago Department of Redevelopment East Chicago, IN 46312

Re: 4802-04 Kennedy Avenue - Soil Borings

Attention: John Artis

On April 23, 2008 a crew visited the above referenced location to conduct a subsurface soil investigation.

Soil borings were taken at four locations to determine the water table level and the type of material used as backfill. Each boring was drilled to a depth of twelve feet below ground level.

One composite soil sample from each boring was analyzed for contaminants. Each sample was analyzed for Pesticides, PCB's Total Metals, Semi-Volatile Organics, Volatile Organics, PH and percent moisture

The subsurface investigation was conducted in accordance with procedures outlined in American Society of Testing Materials (ASTM). Soil boring logs and analytical results are on the following pages.

Fill material was consistent in all borings. Fill material included black dirt and sand (fine to coarse grained). Ground water was found at a depth of seven to nine feet below ground level (BGL).

Analytical results were compared to Residential Closure Levels found in Appendix 1, Table A of the Indiana Department of Environmental Management (IDEM) RISC Technical Guide. All results were below the acceptable residential levels.

Respectfully,

Dragan Viestica

Director

cc:file

Date Drilled: April 23, 2008

**Drilling company: Enviro Dynamics** 

Drilling Rig: GeoProbe 6000

Weather: 70 F, Sunny

Progress: 0.0 to 12 feet bgl

Boring Abandonment: Granular bentonite

Ground water at 7-9 feet below ground level.

0-1 feet is grass with black dirt

Date Drilled: April 23, 2008

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Progress: 0.0 to 12 feet bgl

Boring Abandonment: Granular bentonite

Ground water at 7-9 feet below ground level.

0-1 feet is grass with black dirt



May 01, 2008

Dragan Vjestica Vam Labs 1106 Camellia Dr. Munster, IN 46321

Work Order No.: ME0804959

RE: 4802-04 Kennedy / East Chicago, IN

Dear Dragan Viestica:

Microbac Laboratories, Inc. received 4 samples on 4/24/2008 2:15:00 PM for the analyses presented in the following report.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,

Mierobac Laboratories, Inc.

Cara A. Simaga Project Manager

**Enclosures** 



# WORK ORDER SAMPLE SUMMARY

Date:

Thursday, May 01, 2008

**CLIENT:** 

Vam Labs

Project:

4802-04 Kennedy / East Chicago, IN

Lab Order:

ME0804959

Lab Sample ID	Client Sample ID	Tag Number	<b>Collection Date</b>	Date Received	
ME0804959-01A	4802-1		4/23/2008 9:10:00 AM	4/24/2008	
ME0804959-02A	4802-2		4/23/2008 9:30:00 AM	4/24/2008	
ME0804959-03A	4802-3		4/23/2008 9:50:00 AM	4/24/2008	
ME0804959-04A	4802-4		4/23/2008 10:30:00 AM	4/24/2008	



Date:

Thursday, May 01, 2008

**Client:** 

Vam Labs

Client Project:

4802-04 Kennedy / East Chicago, IN

Client Sample ID:

4802-1

Sample Description:

Sample Matrix: Solid

Work Order / ID:

ME0804959-01

Collection Date: Date Received: 04/23/08 09:10 04/24/08 14:15

Analyses ST Result RL Qual Units DF Analyzed

ESTICIDES/PCBS	Method: SW808	1 A/8082	2	Prep D	ate/Time: 04/29/0	3 06:	42 Analyst: JLV
4,4´-DDD	A		ND	0.039	mg/Kg-dry	1	04/29/08 23:07
4,4´-DDE	A		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
4,4'-DDT	A		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Aldrin	A		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Alpha-BHC	A		ND	0.0079	mg/Kg-dry	1	04/29/08 23:0
Beta-BHC	A		ND	0.020	mg/Kg-dry	1	04/29/08 23:0
Chlordane	А		ND	0.39	mg/Kg-dry	1	04/29/08 23:0
delta-BHC	Α		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Dieldrin	A		ND	0.0019	mg/Kg-dry	1	04/29/08 23:0
Endosulfan I	Α		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Endosulfan II	A		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Endosulfan Sulfate	A		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Endrin	A		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Endrin Aldehyde	A		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Endrin Ketone	A		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Gamma-BHC	A		ND	0.0079	mg/Kg-dry	1	04/29/08 23:0
Heptachlor	Α		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Heptachlor Epoxide	Α		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Methoxychlor	A		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Toxaphene	Α		ND	0.39	mg/Kg-dry	1	04/29/08 23:0
Aroclor 1016	A		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Aroclor 1221	Α		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Aroclor 1232	A		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Aroclor 1242	A		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Aroclor 1248	Α		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Aroclor 1254	Α		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Aroclor 1260	A		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Aroclor 1262	A		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Aroclor 1268	Α		ND	0.039	mg/Kg-dry	1	04/29/08 23:0
Surr: Tetrachloro-m-xylene	S	85.0		5-165	%REC	1	04/29/08 23:0
Surr: Decachlorobiphenyl	S	95.0		5-222	%REC	1	04/29/08 23:0

TOTAL METALS	Method: SW6010	В	Prep D	ate/Time: 04/25/0	8 10:	00 Analyst: AVC
Arsenic	Α	2.8	0.58	mg/Kg-dry	1	04/25/08 19:02
Barium	Α	30	0.12	mg/Kg-dry	1	04/25/08 19:02
Cadmium	Α	0.22	0.12	mg/Kg-dry	1	04/25/08 19:02
Chromium	Α	4.7	0.18	mg/Kg-dry	1	04/25/08 19:02
- Lead	Α	46	0.44	mg/Kg-dry	1	04/25/08 19:02
Selenium	Α	ND	1.8	mg/Kg-dry	1	04/25/08 19:02
Silver	Α	ND	0.58	mg/Kg-dry	1	04/25/08 19:02



Date:

Thursday, May 01, 2008

Client:

Vam Labs

**Client Project:** 

Sample Matrix:

4802-04 Kennedy / East Chicago, IN

Client Sample ID:

Sample Description:

4802-1 Solid

Work Order / ID: **Collection Date:**  ME0804959-01

04/23/08 09:10

Date Received:

04/24/08 14:15

ST RL Qual **Analyses** Result Units DF Analyzed

**TOTAL METALS** Method: SW7471A Prep Date/Time: 04/25/08 09:30 Analyst: AVC Mercury A 0.38 0.038 mg/Kg-dry 04/25/08 13:04

SEMIVOLATILE ORGANICS	Method: SW8270C		Prep D	ate/Time: <b>04/26/08</b>	15:0	
4-Bromophenyl phenyl ether	A	ND	0.39	mg/Kg-dry	1	04/28/08 19:11
Bis(2-ethylhexyl)phthalate	A	ND.	0.39	mg/Kg-dry	1	04/28/08 19:11
Acenaphthene	A	ND.	0.39	mg/Kg-dry	1	04/28/08 19:11
Acenaphthylene	Α	ND,	0.39	mg/Kg-dry	1	04/28/08 19:11
Acetophenone	A	ND,	0.39	mg/Kg-dry	1	04/28/08 19:11
Aniline	A	ND,	0.39	'mg/Kg-dry	1	04/28/08 19:11
Anthracene	Ā	ND.	0.39	mg/Kg-dry	1	04/28/08 19:11
Benzidine	A	ND,	1.9	mg/Kg-dry	1 [	04/28/08 19:11
Benzo[a]anthracene	Ä		0.39	mg/Kg-dry	1	04/28/08 19:11
Benzo[a]pyrene	Ā	ND	0.39	mg/Kg-dry	1	04/28/08 19:11
Benzo[b]fluoranthene	Ã	ND	0.39	mg/Kg-dry	1	04/28/08 19:11
Benzo[g,h,i]perylene	Ä	ND	0.39	mg/Kg-dry	1	04/28/08 19:11
Benzo[k]fluoranthene	A	ND,	0.39	mg/Kg-dry	1	04/28/08 19:11
Benzoic acid	A	ND,	1.9	·mg/Kg-dry	1	04/28/08 19:11
Benzyl alcohol	A	ND	0.79	mg/Kg-dry	1	04/28/08 19:11
Bis(2-chloroethoxy)methane	: A !	ÑĎ	0.39	mg/Kg-dry	1	04/28/08 19:11
Bis(2-chloroethyl)ether	Ā	ND,	0.39	mg/Kg-dry	1	04/28/08 19:11
2,2´-oxybis(1-chloropropane)	A	ND,	0.39	mg/Kg-dry	1	04/28/08 19:11
Butyl benzyl phthalate	A	ND	0.39	mg/Kg-dry	1	04/28/08 19:11
Carbazole	A	ÑÔ	0.39	mg/Kg-dry	1	04/28/08 19:11
4-Chloro-3-methylphenol	A	ND	0.79	mg/Kg-dry	1	04/28/08 19:11
4-Chloroaniline	Α	ND,	0.79	mg/Kg-dry	1	04/28/08 19:11
2-Chloronaphthalene	Ä	ND,	0.39	mg/Kg-dry	1	04/28/08 19:11
2-Chlorophenol	A	ND	0.39	mg/Kg-dry	1	04/28/08 19:11
4-Chlorophenyl phenyl ether	i A	ND	0.39	mg/Kg-dry	1	04/28/08 19:11
Chrysene	A	ND <sub>1</sub>	0.39	mg/Kg-dry	1	04/28/08 19:11
Dibenz[a,h]anthracene	Α	ND	0.39	mg/Kg-dry	1	04/28/08 19:11
Dibenzofuran	; A	ND,	0.39	mg/Kg-dry	1	04/28/08 19:11
1,2-Dichlorobenzene	A	ND,	0.39	mg/Kg-dry	1	04/28/08 19:11
1,3-Dichlorobenzene	A	ND;	0.39	mg/Kg-dry	1	04/28/08 19:11
1,4-Dichlorobenzene	A	ND	0.39	mg/Kg-dry	1	04/28/08 19:11
3,3'-Dichlorobenzidine	i A	ND	1.9	mg/Kg-dry	1	04/28/08 19:11
2,4-Dichlorophenol	. A	ND	0.39	mg/Kg-dry	1	04/28/08 19:11
2,6-Dichlorophenol	, Α	ND.	0.39	mg/Kg-dry	1	04/28/08 19:11
Diethyl phthalate	A	ND,	0.39	mg/Kg-dry	1	04/28/08 19:11
Dimethyl phthalate	A	ND	0.39	mg/Kg-dry	1	04/28/08 19:11
2,4-Dimethylphenol	Â	ND	0.39	mg/Kg-dry	1	04/28/08 19:11



Date:

Thursday, May 01, 2008

Client:

Vam Labs

Client Project:

4802-04 Kennedy / East Chicago, IN

Client Sample ID:

4802-1

Work Order / ID:

ME0804959-01

Sample Description:

Collection Date:

04/23/08 09:10

Sample Matrix:

Solid

Date Received:

04/24/08 14:15

Analyses	ST	Result	RL	Oual	Units	DF	Analyzed
1 may ses	D.	ILCOUIL		Z cress	CINC	~	i kindij zeca

Di-n-butyl phthalate	, А	i	ND,	0.39	mg/Kg-dry	1	04/28/08 19:11
Di-n-octyl phthalate	A	1	ND	0.39	mg/Kg-dry	1	04/28/08 19:11
4,6-Dinitro-2-methylphenol	Ā		ND	1.9	mg/Kg-dry	1	04/28/08 19:11
2,4-Dinitrophenol	A	1	ND	1.9	mg/Kg-dry	1	04/28/08 19:11
2,4-Dinitrotoluene	Ā	<u> </u>	ND.	0.39	mg/Kg-dry	1	04/28/08 19:11
2,6-Dinitrotoluene	A	-{	ND,	0.39	mg/Kg-dry	1	04/28/08 19:11
1,2-Diphenyl-hydrazine	Ā		ND	0.39	mg/Kg-dry	1	04/28/08 19:11
Fluoranthene	. A		ND,	0.39	mg/Kg-dry	1	04/28/08 19:11
Fluorene	Α		ND	0.39	mg/Kg-dry	1	04/28/08 19:11
Hexachlorobenzene	Ā	-	ÑD,	0.39	mg/Kg-dry	1	04/28/08 19:11
Hexachlorobutadiene	Ā	Ť	ND,	0.39	mg/Kg-dry	- i ·	04/28/08 19:11
Hexachlorocyclopentadiene	, A	-(	ND,	0.39	,mg/Kg-dry	1	04/28/08 19:11
Hexachloroethane	Ã		ND,	0.39	mg/Kg-dry	1	04/28/08 19:11
Indeno[1,2,3cd]pyrene	Α	1	ÑD	0.39,	mg/Kg-dry	1	04/28/08 19:11
Isophorone	Ā	<u> </u>	ND,	0.39,	mg/Kg-dry	1	04/28/08 19:11
2-Methylnaphthalene	Ä	} = -	ND	0.39	mg/Kg-dry	1	04/28/08 19:11
2-Methylphenol	Ā	-	ND	0.39	mg/Kg-dry	1	04/28/08 19:1
3/4-Methylphenol	Ä		ND.	0.39	mg/Kg-dry	i	04/28/08 19:1
2-Nitroaniline	Ā		ND	1.9	mg/Kg-dry	1	04/28/08 19:1
3-Nitroaniline	Ā	1	ND,	1.9	mg/Kg-dry	1	04/28/08 19:1
4-Nitroaniline	A	1	ND,	1.9	mg/Kg-dry	1	04/28/08 19:11
2-Nitrophenol	Α		ND	0.39	mg/Kg-dry	1	04/28/08 19:1
4-Nitrophenol	Ā		ND	1.9	mg/Kg-dry	1	04/28/08 19:1
N-Nitrosodi-n-propylamine	A	· · }	ND	0.39	mg/Kg-dry	1	04/28/08 19:1
N-Nitrosodimethylamine	Ä	i - · ·	ND.	0.39	mg/Kg-dry	1	04/28/08 19:1
N-Nitrosodiphenylamine	Α	` ` · · ·	ND	0.39	mg/Kg-dry	ĺ	04/28/08 19:11
Naphthalene	Ã		ND	0.39	mg/Kg-dry	1	04/28/08 19:1
Nitrobenzene	Ā	j	ND.	0.39	mg/Kg-dry	1	04/28/08 19:1
Pentachlorophenol	Ā	<u> </u>	ND,	1.9	.mg/Kg-dry	1	04/28/08 19:1
Phenanthrene	Á		ND.	0.39	mg/Kg-dry	i "	04/28/08 19:1
Phenol	Ā		ND,	0.39	mg/Kg-dry	- <u>î</u>	04/28/08 19:1
Pyrene	, A		ND,	0.39	mg/Kg-dry	1	04/28/08 19:1
Pyridine	A	†	ND,	0.39	Img/Kg-dry	<u>1</u>	04/28/08 19:1
1,2,4-Trichlorobenzene	Á	į ·	ÑD.	0.39	mg/Kg-dry	``1	04/28/08 19:1
2,4,5-Trichlorophenol	Ā	j .	ND:	1.9	mg/Kg-dry	ì	04/28/08 19:11
2,4,6-Trichlorophenol	Α	-; ·	ND	0.39	mg/Kg-dry	1	04/28/08 19:1
Total Cresol	A	j	ND,	0.39	mg/Kg-dry	ī	04/28/08 19:11
Surr: Nitrobenzene-d5	, S	47.9	= {	10-139,	%REC	ì	04/28/08 19:1
Surr: 2-Fluorobiphenyl	Š	50.6	· · · · · ·	10-124	%REC	1	04/28/08 19:11
Surr: Terphenyl-d14	S	57.3		10-157	%REC	j	04/28/08 19:11
Surr: Phenol-d5	ŝ	50.8	•- !	10-97.5	%REC	1	04/28/08 19:11



Date:

Thursday, May 01, 2008

Client:

Vam Labs

**Client Project:** 

4802-04 Kennedy / East Chicago, IN

Client Sample ID:

Sample Description:

Sample Matrix:

4802-1

Work Order / ID:

ME0804959-01

**Collection Date:** 

04/23/08 09:10

**Analyses** 

Solid

Result

Date Received:

04/24/08 14:15

ST

RL

Qual Units DF Analyzed

SEMIVOLATILE ORGANICS Method: SV	/8270	C	Pre	p Date/Time: 04/26/0	8 15:0	5 Analyst: BEM
Surr: 2-Fluorophenol	S	46.7	10-91.4	;%REC	1	04/28/08 19:11
Surr: 2,4,6-Tribromophenol	S	47.4	10-107	%REC	1	04/28/08 19:11

OLATILE ORGANICS	Method: SW8260B		Prep Date/Time:			Analyst: MLT		
Acetone	A	ND	0.060	mg/Kg-dry	1	04/28/08 13:58		
Acrolein	Ā	ND	0.12	mg/Kg-dry	1	04/28/08 13:58		
Acrylonitrile	A	ND	0.12	mg/Kg-dry	1	04/28/08 13:58		
Benzene	A	ND,	0.0060	mg/Kg-dry	1	04/28/08 13:58		
Bromodichloromethane	A	ND,	0.0060	mg/Kg-dry	1	04/28/08 13:58		
Bromoform	Ā	ND,	0.0060	mg/Kg-dry	1	04/28/08 13:58		
Bromomethane	A	ND	0.012,	mg/Kg-dry	1	04/28/08 13:58		
2-Butanone	Ā	ND	0.012	mg/Kg-dry	1	04/28/08 13:58		
Carbon Disulfide	A	ND	0.012,	mg/Kg-dry	1	04/28/08 13:58		
Carbon tetrachloride	Ã	ND.	0.0060	mg/Kg-dry	1	04/28/08 13:58		
Chlorobenzene	A	ND,	0.0060,	mg/Kg-dry	î	04/28/08 13:58		
Chloroethane	Ä	ND	0.012	mg/Kg-dry	1	04/28/08 13:58		
Chloroform	Â	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58		
Chloromethane	A	ND	0.012	mg/Kg-dry	ī	04/28/08 13:58		
Dibromochloromethane	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58		
1,1-Dichloroethane	Α	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58		
1,2-Dichloroethane	Α	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58		
1,1-Dichloroethene	Á	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58		
cis-1,2-Dichloroethene	Α	ND,	0.0060	mg/Kg-dry	ĩ	04/28/08 13:58		
trans-1,2-Dichloroethene	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58		
1,2-Dichloropropane	Ä	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58		
cis-1,3-Dichloropropene	Α	ND	0.0060	mg/Kg-dry	ì	04/28/08 13:58		
trans-1,3-Dichloropropene	Â	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58		
Ethylbenzene	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58		
2-Hexanone	Ā	ND	0.012	mg/Kg-dry	1	04/28/08 13:58		
4-Methyl-2-Pentanone	Ā	ND,	0.012	mg/Kg-dry	ī	04/28/08 13:58		
Methyl-t-Butyl Ether	Ã	ND.	0.0060	mg/Kg-dry	1	04/28/08 13:58		
Methylene chloride	Ā	ND	0.024	mg/Kg-dry	1	04/28/08 13:58		
Styrene	, A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58		
1,1,1,2-Tetrachloroethane	Α	ND,	0.012	mg/Kg-dry	1	04/28/08 13:58		
1,1,2,2-Tetrachloroethane	Â	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58		
Tetrachloroethene	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58		
Toluene	A	0.0079	0.0060	mg/Kg-dry	1	04/28/08 13:58		
1,1,1-Trichloroethane	A	ND	0.0060	mg/Kg-dry	ï	04/28/08 13:58		
1,1,2-Trichloroethane	A	ND.	0.0060	mg/Kg-dry	1	04/28/08 13:58		
Trichloroethene	Α	ND,	0.0060	mg/Kg-dry	1	04/28/08 13:58		



Date:

Thursday, May 01, 2008

Client:

Vam Labs

Client Project:

4802-04 Kennedy / East Chicago, IN

Client Sample ID:

4802-1

Work Order / ID:

ME0804959-01

Sample Description:

**Collection Date:** 

04/23/08 09:10

Sample Matrix:

Solid

Date Received:

04/24/08 14:15

STResult RLAnalyses Qual Units DF Analyzed

VOLATILE ORGANICS M	lethod: SW8260E	3	Pre	p Date/Time:		Analyst: MLT
Trichlorofluoromethane	; A	ND	0.012	mg/Kg-dry	1	04/28/08 13:58
Vinyl Acetate	Α	ND	0.012	mg/Kg-dry	ī	04/28/08 13:58
Vinyl chloride	Ā	ND	0.012	mg/Kg-dry	1	04/28/08 13:58
m,p-Xylene	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
o-Xylene	Ā	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
Total Xylenes	A	ND	0.0060	mg/Kg-dry	1	04/28/08 13:58
Surr: 4-Bromofluorobenzene	Š	86.9	57.4-135	%REC	1	04/28/08 13:58
Surr: Dibromofluoromethane	Š	108	63.5-139	%REC	1	04/28/08 13:58
Surr: 1,2-Dichloroethane-d4	Ş	110	51.7-162	%REC	1	04/28/08 13:58
Surr: Toluene-d8	ŝ	100	66.6-143	%REC	1	04/28/08 13:58

CORROSIVITY BY PH	Method: SW9045C	Prep Date/Time:	Analyst: RJC
рН	A 8.3	0.1 pH Units 1	04/28/08 20:45
PERCENT MOISTURE	Method: 2540B_18ED	Prep Date/Time:	Analyst: SMA
Percent Moisture	A 16	0.10 WT% 1	04/28/08 16:38



Date:

Thursday, May 01, 2008

Client:

Vam Labs

**Client Project:** 

4802-04 Kennedy / East Chicago, IN

Client Sample ID:

Sample Description:

4802-2

**Collection Date:** 

ME0804959-02

Date Received:

Work Order / ID:

04/23/08 09:30 04/24/08 14:15

Sample Matrix:

Solid

Analyses	ST	Result	$\mathbf{RL}$	Qual	Units	DF	Analyzed

PESTICIDES/PCBS	Method:	SW8081A	/8082	Pre	ep Date/Time: <b>04/29/0</b>	8 06:	42 Analyst: JLW
4,4´-DDD		A	NL	0.041	mg/Kg-dry	1	04/29/08 23:34
4,4'-DDE		Ā	NI	0.041	mg/Kg-dry	1	04/29/08 23:34
4,4'-DDT		Α	NI	0.041	mg/Kg-dry	1	04/29/08 23:34
Aldrin		A	NI	0.041	mg/Kg-dry	1	04/29/08 23:34
Alpha-BHC		A	NI	0.0083	mg/Kg-dry	1	04/29/08 23:34
Beta-BHC		Ā	NL	0.021	mg/Kg-dry	1	04/29/08 23:34
Chlordane		A	NL	0.41	mg/Kg-dry	Ĩ	04/29/08 23:34
delta-BHC		A	NI	0.041	mg/Kg-dry	1	04/29/08 23:34
Dieldrin	<del></del>	A	NI	0.0020	mg/Kg-dry	1	04/29/08 23:34
Endosulfan I		Ã	ÑĨ	0.041	mg/Kg-dry	i	04/29/08 23:34
Endosulfan II		Ā	NL	0.041	mg/Kg-dry	1	04/29/08 23:34
Endosulfan Sulfate		Ā	NL		mg/Kg-dry	1	04/29/08 23:34
Endrin		Ä	NI	0.041	mg/Kg-dry	ī	04/29/08 23:34
Endrin Aldehyde		A	NÎ	0.041	mg/Kg-dry	1	04/29/08 23:34
Endrin Ketone		Ā	NI	0.041	mg/Kg-dry	1	04/29/08 23:34
Gamma-BHC		Ā	NI	0.0083	mg/Kg-dry	Ť	04/29/08 23:34
Heptachlor		Â	Ñ	0.041	mg/Kg-dry	` <b>1</b>	04/29/08 23:34
Heptachlor Epoxide		Ã	Ñ	0.041	mg/Kg-dry	1	04/29/08 23:34
Methoxychlor		Α	Ñ	0.041	,mg/Kg-dry	ĩ	04/29/08 23:34
Toxaphene		Ã	NI	0.41	mg/Kg-dry	ĭ	04/29/08 23:34
Aroclor 1016		. A	NI		mg/Kg-dry	ī	04/29/08 23:34
Aroclor 1221		ζÄ	Ñ	0.041	mg/Kg-dry	1	04/29/08 23:34
Aroclor 1232		À	NL	0.041	mg/Kg-dry	1	04/29/08 23:34
Aroclor 1242		Ā	NI	0.041	mg/Kg-dry	i	04/29/08 23:34
Aroclor 1248		Ā	NI		mg/Kg-dry	1	04/29/08 23:34
Aroclor 1254		A	ÑĹ	0.041	mg/Kg-dry	ĺ	04/29/08 23:34
Aroclor 1260		A	NI	0.041	mg/Kg-dry	1	04/29/08 23:34
Aroclor 1262		Α	NE	0.041	mg/Kg-dry	1	04/29/08 23:34
Aroclor 1268		Ă	NI	0.041	mg/Kg-dry	1	04/29/08 23:34
Surr: Tetrachloro-m-xylene	•	ŝ	65.0	5-165	%REC	1	04/29/08 23:34
Surr: Decachlorobiphenyl		S	90.0	5-222	%REC	- i	04/29/08 23:34

TOTAL METALS	Method: SW6010I	В	Pre	p Date/Time: <b>04/25/0</b> 8	B 10:0	O Analyst: AVC
Arsenic	i A	1.7	0.58	mg/Kg-dry	1	04/25/08 19:07
Barium	A .	14	0.12	mg/Kg-dry	1	04/25/08 19:07
Cadmium	Ā	ND	0.12	mg/Kg-dry	1	04/25/08 19:07
Chromium	A	3.4	0.18	mg/Kg-dry	1	04/25/08 19:07
- Lead	Ā	23	0.44	mg/Kg-dry	1	04/25/08 19:07
Selenium	A	ND	1.8	mg/Kg-dry	1	04/25/08 19:07
Silver	A	ND	0.58	mg/Kg-dry	1	04/25/08 19:07



Date:

Qual

RL

Thursday, May 01, 2008

Client:

Vam Labs

Client Project:

4802-04 Kennedy / East Chicago, IN

Client Sample ID:

Sample Description: Sample Matrix: 4802-2

Work Order / ID: Collection Date: ME0804959-02

Date Received:

04/23/08 09:30 04/24/08 14:15

Analyses

Solid

Date Received:

Units

DF Analyzed

**TOTAL METALS** 

2,4-Dimethylphenol

Method: SW7471A

Prep Date/Time: 04/25/08 09:30 Analyst: AVC

Mercury

A 0.27

Result

ST

0.050 mg/Kg-dry 1 04/25/08 13:06

**SEMIVOLATILE ORGANICS** Method: SW8270C Prep Date/Time: 04/29/08 13:13 Analyst: BEM ND 0.41 mg/Kg-dry 04/29/08 23:10 4-Bromophenyl phenyl ether ND 0.41 mg/Kg-dry 04/29/08 23:10 Bis(2-ethylhexyl)phthalate 04/29/08 23:10 ND 0.41 mg/Kg-dry Acenaphthene ND 04/29/08 23:10 Acenaphthylene 0.41 mg/Kg-dry ND 0.41 mg/Kg-dry 04/29/08 23:10 Acetophenone 04/29/08 23:10 ND 0.41 Aniline mg/Kg-dry 0.41 04/29/08 23:10 ND ĩ Anthracene mg/Kg-dry Benzidine ÑĎ 2.0 mg/Kg-dry 04/29/08 23:10 0.41 04/29/08 23:10 ÑD Benzo[a]anthracene mg/Kg-dry ND 0.41 04/29/08 23:10 mg/Kg-dry Benzo[a]pyrene Benzo[b]fluoranthene ΝĎ 0.41 mg/Kg-dry 04/29/08 23:10 ND 0.41 mg/Kg-dry 04/29/08 23:10 Benzo[g,h,i]perylene 0.41 04/29/08 23:10 ND mg/Kg-dry Benzo[k]fluoranthene ND 2.0 04/29/08 23:10 Benzoic acid mg/Kg-dry Benzyl alcohol ND 0.83 04/29/08 23:10 mg/Kg-dry Bis(2-chloroethoxy)methane NĐ 0.41 04/29/08 23:10 mg/Kg-dry ND 0.41 04/29/08 23:10 Bis(2-chloroethyl)ether mg/Kg-dry ND 0.41 mg/Kg-dry 04/29/08 23:10 2,2'-oxybis(1-chloropropane) Ā ND 0.41 04/29/08 23:10 Butyl benzyl phthalate mg/Kg-dry ÑĎ 0.41 04/29/08 23:10 Carbazole À mg/Kg-dry 0.83 Ä ND 4-Chloro-3-methylphenol mg/Kg-dry 04/29/08 23:10 Ā ND 0.83 04/29/08 23:10 4-Chloroaniline mg/Kg-dry Ā ÑĎ 0.41 04/29/08 23:10 2-Chloronaphthalene mg/Kg-dry 0.41 04/29/08 23:10 2-Chlorophenol À ND mg/Kg-dry Ã ND 0.41 mg/Kg-dry 04/29/08 23:10 4-Chlorophenyl phenyl ether ND 0.41 04/29/08 23:10 mg/Kg-dry Chrysene 0.41 Ã ND mg/Kg-dry 04/29/08 23:10 Dibenz[a,h]anthracene Dibenzofuran Ā ND 0.41 mg/Kg-dry 04/29/08 23:10 Ã ND 0.41 mg/Kg-dry 04/29/08 23:10 1,2-Dichlorobenzene ND 0.41 04/29/08 23:10 1,3-Dichlorobenzene mg/Kg-dry 0.41 04/29/08 23:10 1.4-Dichlorobenzene ND mg/Kg-dry ND 2.0 mg/Kg-dry 04/29/08 23:10 3,3'-Dichlorobenzidine 0.41 ND 04/29/08 23:10 2,4-Dichlorophenol mg/Kg-dry 0.41 04/29/08 23:10 ND 2,6-Dichlorophenol mg/Kg-dry Diethyl phthalate ND 0.41 04/29/08 23:10 mg/Kg-dry ND 0.41 04/29/08 23:10 Dimethyl phthalate mg/Kg-dry

ND

0.41

mg/Kg-dry

04/29/08 23:10



Date:

Thursday, May 01, 2008

Client:

Vam Labs

**Client Project:** 

4802-04 Kennedy / East Chicago, IN

Client Sample ID:

4802-2

Sample Description: Sample Matrix:

Solid

Work Order / ID:

ME0804959-02

**Collection Date:** 

04/23/08 09:30

Date Received:

04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
		<del></del>					

EMIVOLATILE ORGANICS	Method: SW8270	U		ep Date/Time: 04/29/0		AL MILES OF THE PARTY OF THE PA
Di-n-butyl phthalate	A	ND	0.41	mg/Kg-dry	1	04/29/08 23:1
Di-n-octyl phthalate	A	ND	0.41	mg/Kg-dry	1	04/29/08 23:1
4,6-Dinitro-2-methylphenol	Α	ND	2.0	mg/Kg-dry	1	04/29/08 23:1
2,4-Dinitrophenol	A	ND	2.0	mg/Kg-dry	1	04/29/08 23:1
2,4-Dinitrotoluene	A	ND	0.41	mg/Kg-dry	1	04/29/08 23:1
2,6-Dinitrotoluene	A	ND	0.41	mg/Kg-dry	1	04/29/08 23:1
1,2-Diphenyl-hydrazine	A	ND	0.41	mg/Kg-dry	1	04/29/08 23:1
Fluoranthene	A	ND	0.41	mg/Kg-dry	1	04/29/08 23:1
Fluorene	Ā	ND	0.41	mg/Kg-dry	1	04/29/08 23:1
Hexachlorobenzene	Ã	ND	0.41	mg/Kg-dry	1	04/29/08 23:1
Hexachlorobutadiene	Ā	ND	0.41	mg/Kg-dry	1	04/29/08 23:1
Hexachlorocyclopentadiene	Ā	ND	0.41	mg/Kg-dry	1	04/29/08 23:1
Hexachloroethane	Ā	ND	0.41	mg/Kg-dry	1	04/29/08 23:1
Indeno[1,2,3cd]pyrene	Ä	ND	0.41	mg/Kg-dry	1	04/29/08 23:1
Isophorone	Ā	ND	0.41	mg/Kg-dry	1	04/29/08 23:1
2-Methylnaphthalene		ND	0.41	mg/Kg-dry	1	04/29/08 23:1
2-Methylphenol	Ā	ND	0.41	mg/Kg-dry	1	04/29/08 23:1
3/4-Methylphenol	Ā	ND	0.41	mg/Kg-dry	1	04/29/08 23:1
2-Nitroaniline	Ā	ND	2.0	mg/Kg-dry	1	04/29/08 23:1
3-Nitroaniline	Ā	ND	2.0	mg/Kg-dry	1	04/29/08 23:1
4-Nitroaniline	Ā	ND	∮	img/Kg-dry	- 'ii -	04/29/08 23:1
2-Nitrophenol	Ā	ND	0.41	mg/Kg-dry	ĩ	04/29/08 23:1
4-Nitrophenol	Ā	ND	2.0	mg/Kg-dry	~ <del>T</del> ~	04/29/08 23:1
N-Nitrosodi-n-propylamine	Ā	ND	0.41	mg/Kg-dry	1	04/29/08 23:1
N-Nitrosodimethylamine		ND		mg/Kg-dry	1	04/29/08 23:1
N-Nitrosodiphenylamine	Á	ÑĎ	0.41	mg/Kg-dry	` 1 ·	04/29/08 23:1
Naphthalene	Ā	ND	0.41	img/Kg-dry	1	04/29/08 23:1
Nitrobenzene	Ā	ND	<u></u>	mg/Kg-dry	ī .	04/29/08 23:1
Pentachlorophenol	Ā	ND		lmg/Kg-dry	ī	04/29/08 23:1
Phenanthrene	Ä	ND	la amazant	mg/Kg-dry	ĩ	04/29/08 23:1
Phenol	Ā	ND		mg/Kg-dry	1	04/29/08 23:1
Pvrene	A	ND		mg/Kg-dry	1	04/29/08 23:1
Pyridine	A	ND	l	mg/Kg-dry	1	04/29/08 23:1
1,2,4-Trichlorobenzene	A	ND		mg/Kg-dry	1	04/29/08 23:1
2,4,5-Trichlorophenol	A	ND		mg/Kg-dry	1	04/29/08 23:1
2,4,6-Trichlorophenol	A	ND		mg/Kg-dry	<u>-</u> -	04/29/08 23:1
Total Cresol	A	ND		mg/Kg-dry	- ; 1	04/29/08 23:1
Surr: Nitrobenzene-d5	ŝ	36.6	10-139	/%REC	1	04/29/08 23:1
Surr: 2-Fluorobiphenyl	S	41.7	10-124	%REC	1	04/29/08 23:1
Surr: Terphenyl-d14		42.2	10-157	%REC	1	04/29/08 23:1
Surr: Phenol-d5	S	31.7	10-137	%REC	1	04/29/08 23:1



Date:

Thursday, May 01, 2008

Client:

Vam Labs

Client Project:

4802-04 Kennedy / East Chicago, IN

Client Sample ID:

Sample Description: Sample Matrix: 4802-2 Solid Work Order / ID: Collection Date: ME0804959-02 04/23/08 09:30

Date Received:

04/24/08 14:15

Analyses ST Result RL Qual Units DF Analyzed

SEMIVOLATILE ORGANICS	Method: SW8270C	Prep Date/Time: 04/29	}/08 13:1:	3 Analyst: BEM
Surr: 2-Fluorophenol	S 32.0	10-91.4 %REC	1 1	04/29/08 23:10
Surr: 2,4,6-Tribromophenol	S 42.5	10-107 %REC	1	04/29/08 23:10

VOLATILE ORGANICS	Method: SW8260	)B		Prep D	ate/Time:		Analyst: MLT
Acetone	. A	. +	ND,	0.062	mg/Kg-dry	1	04/28/08 14:33
Acrolein	A		ND	0.12	mg/Kg-dry	1	04/28/08 14:33
Acrylonitrile	Ā		ND,	0.12	mg/Kg-dry	1	04/28/08 14:33
Benzene	A		ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
Bromodichloromethane	Ā		ND,	0.0062	mg/Kg-dry	1	04/28/08 14:33
Bromoform	A	1	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
Bromomethane	↓ A	7	ND;	0.012	mg/Kg-dry	1	04/28/08 14:33
2-Butanone	Ä	1	ND	0.012	mg/Kg-dry	1	04/28/08 14:33
Carbon Disulfide	, A	1	ND,	0.012	mg/Kg-dry	1	04/28/08 14:33
Carbon tetrachloride	Ä		ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
Chlorobenzene	Ā	•	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
Chloroethane	Ä		ND,	0.012	mg/Kg-dry	1	04/28/08 14:33
Chloroform	Ä	:	ND,	0.0062	mg/Kg-dry	1	04/28/08 14:33
Chloromethane	Ā	1	ND,	0.012	mg/Kg-dry	1	04/28/08 14:33
Dibromochloromethane	A		ND	0.0062	mg/Kg-dry	í	04/28/08 14:33
1,1-Dichloroethane	Ä		ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
1,2-Dichloroethane	Ā		ND,	0.0062	mg/Kg-dry	1	04/28/08 14:33
1,1-Dichloroethene	A		ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
cis-1,2-Dichloroethene	A	3	ND,	0.0062	mg/Kg-dry	i	04/28/08 14:33
trans-1,2-Dichloroethene	, A		ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
1,2-Dichloropropane	A		ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
cis-1,3-Dichloropropene	, A	: 1	ÑĎ,	0.0062	.mg/Kg-dry	ĩ	04/28/08 14:33
trans-1,3-Dichloropropene	A		ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
Ethylbenzene	ŀ A		ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
2-Hexanone	Ā	1	ND'	0.012	mg/Kg-dry	1	04/28/08 14:33
4-Methyl-2-Pentanone	Ā		ND,	0.012	mg/Kg-dry	1	04/28/08 14:33
Methyl-t-Butyl Ether	Ä	•	ND;	0.0062	mg/Kg-dry	1	04/28/08 14:33
Methylene chloride	Ā		ND,	0.025	mg/Kg-dry	1	04/28/08 14:33
Styrene	Ā	–	ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
1,1,1,2-Tetrachloroethane	A	i -	ND	0.012	mg/Kg-dry	1	04/28/08 14:33
1,1,2,2-Tetrachloroethane	Ä		ND,	0.0062	mg/Kg-dry	1	04/28/08 14:33
Tetrachloroethene	A		ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
Toluene	A	0.013		0.0062	mg/Kg-dry	1	04/28/08 14:33
1,1,1-Trichloroethane	A		ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
1,1,2-Trichloroethane	Ā		ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
Trichloroethene	Ā		ND,	0.0062	mg/Kg-dry	1	04/28/08 14:33



Date:

Thursday, May 01, 2008

Client:

Vam Labs

**Client Project:** 

4802-04 Kennedy / East Chicago, IN

Client Sample ID:

4802-2

Work Order / ID:

ME0804959-02

Sample Description:

**Collection Date:** 

04/23/08 09:30

Sample Matrix:

Solid

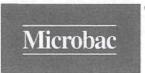
Date Received:

04/24/08 14:15

Analyses		ST	Result	RL	Qual	Units	DF	Analyzed
			,					
VOLATUE ODCANICE	Mothod:	CMOSCOB		В	ron Dato/Ti	imo:		Analyst: MIT

OLATILE ORGANICS Well	100: <b>3446260</b> 1	5		Prepi	Analyst: IVILI		
Trichlorofluoromethane	Α		ND,	0.012	mg/Kg-dry	1	04/28/08 14:33
Vinyl Acetate	Ä	1	ND	0.012	mg/Kg-dry	1	04/28/08 14:33
Vinyl chloride	Ā		ND	0.012	mg/Kg-dry	1	04/28/08 14:33
m,p-Xylene	A		ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
o-Xylene	Ā	}	ND,	0.0062	mg/Kg-dry	1	04/28/08 14:33
Total Xylenes	Ā		ND	0.0062	mg/Kg-dry	1	04/28/08 14:33
Surr: 4-Bromofluorobenzene	S	82.8	1	57.4-135	%REC	1	04/28/08 14:33
Surr: Dibromofluoromethane	S	106	,	63.5-139	%REC	1	04/28/08 14:33
Surr: 1,2-Dichloroethane-d4	, S	108	· · · · · · · · · · · · · · · · · · ·	51.7-162	%REC	1	04/28/08 14:33
Surr: Toluene-d8	S	104	1	66.6-143	%REC	1	04/28/08 14:33

CORROSIVITY BY PH	Method: SW9045C	Prep Date/Time:	Analyst: RJC
рН	A 8.6	0.1 pH Units	1 04/28/08 20:45
PERCENT MOISTURE	Method: 2540B_18ED	Prep Date/Time:	Analyst: SMA
Percent Moisture	A 20	0.10 WT%	1 04/28/08 16:38



.

Client: Vam Labs

Client Project: 4802-04 Kennedy / East Chicago, IN Client Sample ID: 4802-3

Client Sample ID: Sample Description:

Sample Matrix: Solid

Work Order / ID:

Date:

ME0804959-03

Thursday, May 01, 2008

Collection Date: Date Received: 04/23/08 09:50 04/24/08 14:15

Analyses ST Result RL Qual Units DF Analyzed

ESTICIDES/PCBS	Method: SW80			The second secon	ate/Time: 04/29/0		
4,4´-DDD		A	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
4,4´-DDE		A	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
4,4´-DDT		A	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Aldrin		Α	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Alpha-BHC		Α	ND	0.0080	mg/Kg-dry	1	04/30/08 00:02
Beta-BHC		A	ND	0.021	mg/Kg-dry	1	04/30/08 00:02
Chlordane		A	ND	0.40	mg/Kg-dry	1	04/30/08 00:02
delta-BHC		Α	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Dieldrin		Α	ND	0.0020	mg/Kg-dry	1	04/30/08 00:02
Endosulfan I		Α	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Endosulfan II		Α	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Endosulfan Sulfate		Α	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Endrin		Α	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Endrin Aldehyde		A	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Endrin Ketone		A	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Gamma-BHC		Α	ND	0.0080	mg/Kg-dry	1	04/30/08 00:02
Heptachlor		Α	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Heptachlor Epoxide		Α	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Methoxychlor		Α	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Toxaphene		Α	ND	0.40	mg/Kg-dry	1	04/30/08 00:02
Aroclor 1016		Α	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Aroclor 1221		Α	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Aroclor 1232		Α	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Aroclor 1242		A	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Aroclor 1248		Α	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Aroclor 1254		A	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Aroclor 1260		Α	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Aroclor 1262		Α	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Aroclor 1268		A	ND	0.040	mg/Kg-dry	1	04/30/08 00:02
Surr: Tetrachloro-m-xylene		S	70.0	5-165	%REC	1	04/30/08 00:02
Surr: Decachlorobiphenyl		S	85.0	5-222	%REC	1	04/30/08 00:02

OTAL METALS	Method: SW6010	В		Prep D	ate/Time: 04/25/08	8 10:	00 Analyst: AVC
Arsenic	A	4.8		0.57	mg/Kg-dry	1	04/25/08 19:12
Barium	A	12		0.11	mg/Kg-dry	1	04/25/08 19:12
Cadmium	A		ND	0.11	mg/Kg-dry	1	04/25/08 19:12
Chromium	A	3.2		0.17	mg/Kg-dry	1	04/25/08 19:12
Lead	A	18		0.43	mg/Kg-dry	1	04/25/08 19:12
Selenium	A		ND	1.7	mg/Kg-dry	1	04/25/08 19:12
Silver	A		ND	0.57	mg/Kg-dry	1	04/25/08 19:12
	Barium Cadmium Chromium Lead Selenium	Arsenic         A           Barium         A           Cadmium         A           Chromium         A           Lead         A           Selenium         A	Arsenic         A 4.8           Barium         A 12           Cadmium         A           Chromium         A 3.2           Lead         A 18           Selenium         A	Arsenic         A 4.8           Barium         A 12           Cadmium         A ND           Chromium         A 3.2           Lead         A 18           Selenium         A ND	Arsenic       A 4.8       0.57         Barium       A 12       0.11         Cadmium       A ND       0.11         Chromium       A 3.2       0.17         Lead       A 18       0.43         Selenium       A ND       1.7	Arsenic         A         4.8         0.57         mg/Kg-dry           Barium         A         12         0.11         mg/Kg-dry           Cadmium         A         ND         0.11         mg/Kg-dry           Chromium         A         3.2         0.17         mg/Kg-dry           Lead         A         18         0.43         mg/Kg-dry           Selenium         A         ND         1.7         mg/Kg-dry	Arsenic       A 4.8       0.57       mg/Kg-dry       1         Barium       A 12       0.11       mg/Kg-dry       1         Cadmium       A ND 0.11       mg/Kg-dry       1         Chromium       A 3.2       0.17       mg/Kg-dry       1         Lead       A 18       0.43       mg/Kg-dry       1         Selenium       A ND 1.7       mg/Kg-dry       1



Date:

Thursday, May 01, 2008

Client:

Vam Labs

**Client Project:** 

4802-04 Kennedy / East Chicago, IN

Client Sample ID:

4802-3

Work Order / ID:

ME0804959-03

Sample Description: Sample Matrix:

**Collection Date:** 

04/23/08 09:50

Solid

**Date Received:** 

04/24/08 14:15

04/25/08 13:10

**Analyses** 

Mercury

ST

RLQual

0.046

Units DF

mg/Kg-dry

Analyzed

TOTAL METALS	Method: SW7471A	Prep Date/Time: 04/25/08 09:30 Analyst: AVC

Result

ND

SEMIVOLATILE ORGANICS	Method: SW8270C		Prep D	ate/Time: 04/29/08	13:1	13 Analyst: BEM
4-Bromophenyl phenyl ether	A	ND,	0.40	mg/Kg-dry	1	04/29/08 23:37
Bis(2-ethylhexyl)phthalate	, A	ND,	0.40	mg/Kg-dry	1	04/29/08 23:37
Acenaphthene	A	ND,	0.40	mg/Kg-dry	1	04/29/08 23:37
Acenaphthylene	A	ND,	0.40	mg/Kg-dry	1	04/29/08 23:37
Acetophenone	A	ND,	0.40	mg/Kg-dry	1	04/29/08 23:37
Aniline	Α	ND	0.40	mg/Kg-dry	1	04/29/08 23:37
Anthracene	Ā	ND	0.40	mg/Kg-dry	ī	04/29/08 23:37
Benzidine	A	ND ND	2.0	mg/Kg-dry	1	04/29/08 23:37
Benzo[a]anthracene	Ã	ND.	0.40	mg/Kg-dry	ī	04/29/08 23:37
Benzo[a]pyrene	, A	ND,	0.40	mg/Kg-dry	1	04/29/08 23:37
Benzo[b]fluoranthene	Ä	ND,	0.40	mg/Kg-dry	1	04/29/08 23:37
Benzo[g,h,i]perylene	Ā	ND	0.40	mg/Kg-dry	1	04/29/08 23:37
Benzo[k]fluoranthene	Ā	ND	0.40	mg/Kg-dry	ĩ.	04/29/08 23:37
Benzoic acid	A	ND	2.0	mg/Kg-dry	1	04/29/08 23:37
Benzyl alcohol	A	ND,	0.80	mg/Kg-dry	ĩ	04/29/08 23:37
Bis(2-chloroethoxy)methane	A	ND	0.40	mg/Kg-dry	1	04/29/08 23:37
Bis(2-chloroethyl)ether	A	ND,	0.40	mg/Kg-dry	ĩ "	04/29/08 23:37
2,2'-oxybis(1-chloropropane)	A	ND,	0.40	mg/Kg-dry	1	04/29/08 23:37
Butyl benzyl phthalate	A	ND	0.40	mg/Kg-dry	1 -	04/29/08 23:37
Carbazole	Α	ÑD,	0.40	mg/Kg-dry	1.	04/29/08 23:37
4-Chloro-3-methylphenol	A	ND,	0.80	mg/Kg-dry	1	04/29/08 23:37
4-Chloroaniline	A	ND.	0.80	mg/Kg-dry	1	04/29/08 23:37
2-Chloronaphthalene	À	ND	0.40	mg/Kg-dry	1	04/29/08 23:37
2-Chlorophenol	Á	ND,	0.40	mg/Kg-dry	~~~~~	04/29/08 23:37
4-Chlorophenyl phenyl ether	A	ND	0.40	mg/Kg-dry	1	04/29/08 23:37
Chrysene	A	ND,	0.40	mg/Kg-dry	1	04/29/08 23:37
Dibenz[a,h]anthracene	A	ND	0.40	mg/Kg-dry	1	04/29/08 23:37
Dibenzofuran	A	ND	0.40	mg/Kg-dry	1	04/29/08 23:37
1,2-Dichlorobenzene	Ā	ND	0.40	mg/Kg-dry	1	04/29/08 23:37
1,3-Dichlorobenzene	A	ND.	0.40	mg/Kg-dry	1	04/29/08 23:37
1,4-Dichlorobenzene	A	ND	0.40	mg/Kg-dry	1	04/29/08 23:37
3,3'-Dichlorobenzidine	A	ND,	2.0	mg/Kg-dry	1	04/29/08 23:37
2,4-Dichlorophenol	Ā	ND	0.40	mg/Kg-dry		04/29/08 23:37
2,6-Dichlorophenol	Ā	ND	0.40	mg/Kg-dry	1	04/29/08 23:37
Diethyl phthalate	Ā	ND	0.40	mg/Kg-dry	1	04/29/08 23:37
Dimethyl phthalate	Ā	ND	0.40	mg/Kg-dry	ĩ	04/29/08 23:37
2,4-Dimethylphenol	A	ND	0.40	mg/Kg-dry	ĩ	04/29/08 23:37



Date:

Thursday, May 01, 2008

Client:

Vam Labs

Client Project:

4802-04 Kennedy / East Chicago, IN

Client Sample ID:

4802-3

Work Order / ID:

ME0804959-03

Sample Description: Sample Matrix:

Solid

**Collection Date:** 

04/23/08 09:50

Date Received:

04/24/08 14:15

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed	
								-

EMIVOLATILE ORGANICS	Method:	SW8270	C	man arabanhanin i		Date/Time: 04/29/0	8 13:	·
Di-n-butyl phthalate		A	}	ND	0.40	mg/Kg-dry	1	04/29/08 23:3
Di-n-octyl phthalate	2.42.77	A	1	ND	0.40	mg/Kg-dry	1	04/29/08 23:3
4,6-Dinitro-2-methylphenol		Ā		ND,	2.0	mg/Kg-dry	1	04/29/08 23:3
2,4-Dinitrophenol		A	1	ND,	2.0	mg/Kg-dry	1	04/29/08 23:3
2,4-Dinitrotoluene		A	i	ND	0.40	mg/Kg-dry	1	04/29/08 23:3
2,6-Dinitrotoluene		A	1	ND,	0.40	mg/Kg-dry	1	04/29/08 23:3
1,2-Diphenyl-hydrazine		A	;	ND	0.40	mg/Kg-dry	1	04/29/08 23:
Fluoranthene		A	;	ND,	0.40	mg/Kg-dry	1	04/29/08 23:
Fluorene		Α	<u> </u>	ND	0.40	mg/Kg-dry	1	04/29/08 23:
Hexachlorobenzene		Â	: · · · 1	ND	0.40	mg/Kg-dry	1	04/29/08 23:
Hexachlorobutadiene		Ā		ND	0.40	mg/Kg-dry	1	04/29/08 23:
Hexachlorocyclopentadiene		Ā		ND.	0.40	mg/Kg-dry	1	04/29/08 23:
Hexachloroethane		Α		ND	0.40	mg/Kg-dry	1	04/29/08 23:
Indeno[1,2,3cd]pyrene		Α		ND	0.40	mg/Kg-dry	i i	04/29/08 23:
Isophorone		Ä	ļ	ND	0.40	mg/Kg-dry	1	04/29/08 23:
2-Methylnaphthalene		A	-	ND	0.40	mg/Kg-dry	1	04/29/08 23:
2-Methylphenol		Ã		ND	0.40	mg/Kg-dry	1	04/29/08 23:
3/4-Methylphenol		Ã	i .	ND.	0.40	mg/Kg-dry	1	04/29/08 23:
2-Nitroaniline		Ā	ļ	ND	2.0	mg/Kg-dry	1	04/29/08 23:
3-Nitroaniline		Ã	-	······································	2.0;	mg/Kg-dry	i	04/29/08 23:
4-Nitroaniline		Ä		ND	2.0	mg/Kg-dry	1	04/29/08 23:
2-Nitrophenol		Α.		ÑĎ	0.40	mg/Kg-dry	1	04/29/08 23:
4-Nitrophenol		Ä		ND	2.0	mg/Kg-dry	· 1	04/29/08 23:
N-Nitrosodi-n-propylamine	,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	Ā		ND	0.40	mg/Kg-dry	1	04/29/08 23:
N-Nitrosodimethylamine		Ā	;	ND	0.40,	mg/Kg-dry	1	04/29/08 23:
N-Nitrosodiphenylamine	*	À	!	ND.	0.40	mg/Kg-dry	1	04/29/08 23:
Naphthalene		Ā		ND	0.40	mg/Kg-dry	1	04/29/08 23:
Nitrobenzene		Á		ND	0.40	mg/Kg-dry	1	04/29/08 23:
Pentachlorophenol		A		ND,	2.0	mg/Kg-dry	1	04/29/08 23:
Phenanthrene		Ā		ND	0.40	mg/Kg-dry	1	04/29/08 23:
Phenol			į ·	ND	0.40	mg/Kg-dry	. <u></u> .	04/29/08 23:
Pyrene		<del></del> -		ND	0.40	mg/Kg-dry	1	04/29/08 23:
Pyridine		·	;	ND	0.40	mg/Kg-dry	1	04/29/08 23:
1,2,4-Trichlorobenzene		Δ		ND	0.40	mg/Kg-dry		04/29/08 23:
2,4,5-Trichlorophenol				ND	2.0	mg/Kg-dry		04/29/08 23:
2,4,6-Trichlorophenol		A		ND -	0.40	mg/Kg-dry	1	04/29/08 23:
Total Cresol				ND'	0.40	mg/Kg-dry	;-	04/29/08 23:
Surr: Nitrobenzene-d5		³ S	57.9		10-139	%REC		04/29/08 23:
The state of the s		•	78.6			%REC	1	¹
Surr: 2-Fluorobiphenyl			78.6 71.6		10-124		1	04/29/08 23:
Surr: Terphenyl-d14			-		10-157	%REC	1	04/29/08 23:
Surr: Phenol-d5		s	60.9	:	10-97.5	%REC	1	04/29/08 23:



Date:

Thursday, May 01, 2008

Client:

Vam Labs

Client Project:

4802-04 Kennedy / East Chicago, IN

Client Sample ID:

Sample Description:

4802-3

Work Order / ID:

ME0804959-03

Sample Matrix:

Solid

**Collection Date:** 

04/23/08 09:50

Date Received:

04/24/08 14:15

STRL**Analyses** Result Qual Units DF Analyzed

SEMIVOLATILE ORGANICS	Method: SW82	270C	Prep Dat	e/ I ime: <b>04/29/0</b>	8 13:1:	3 Analyst: BEM
Surr: 2-Fluorophenol		S 57.9	10-91.4	,%REC		04/29/08 23:37
Surr: 2,4,6-Tribromophenol		S 77.0	10-107	%REC	1	04/29/08 23:37
	1140 11-00 1					

VOLATILE ORGANICS	Method: SW8260	В	Pre	ep Date/Time:		Analyst: MLT
Acetone	A	ND	0.061	mg/Kg-dry	1	04/28/08 15:08
Acrolein	Ā	ND	0.12	mg/Kg-dry	1	04/28/08 15:08
Acrylonitrile	Ä	ND	0.12	mg/Kg-dry	1	04/28/08 15:08
Benzene	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
Bromodichloromethane	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
Bromoform	Ā	ND	0.0061	mg/Kg-dry	ì	04/28/08 15:08
Bromomethane	Ä	ND	0.012	mg/Kg-dry	1	04/28/08 15:08
2-Butanone	Ā	ND	0.012	mg/Kg-dry	ī	04/28/08 15:08
Carbon Disulfide	, A	ND	0.012	.mg/Kg-dry	1	04/28/08 15:08
Carbon tetrachloride	Ä	ND	0.0061	,mg/Kg-dry	1	04/28/08 15:08
Chlorobenzene	À	ND	0.0061	mg/Kg-dry	ìì	04/28/08 15:08
Chloroethane	Ā	ND	0.012	mg/Kg-dry	1	04/28/08 15:08
Chloroform	Ā	ND	0.0061	:mg/Kg-dry	1	04/28/08 15:08
Chloromethane	Ä	ND	0.012	mg/Kg-dry	1	04/28/08 15:08
Dibromochloromethane	Α	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
1,1-Dichloroethane	Ä	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
1,2-Dichloroethane	A	ND	0.0061	mg/Kg-dry	7	04/28/08 15:08
1,1-Dichloroethene	Ā	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
cis-1,2-Dichloroethene	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
trans-1,2-Dichloroethene	Ä	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
1,2-Dichloropropane	Ā	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
cis-1,3-Dichloropropene	Α	ND	0.0061	,mg/Kg-dry	1	04/28/08 15:08
trans-1,3-Dichloropropene	Α	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
Ethylbenzene	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
2-Hexanone	Ā	ND	0.012	mg/Kg-dry	1	04/28/08 15:08
4-Methyl-2-Pentanone	Ā	ND'	0.012	mg/Kg-dry	1	04/28/08 15:08
Methyl-t-Butyl Ether	Ä	ND	0.0061	mg/Kg-dry	ĩ	04/28/08 15:08
Methylene chloride	Ā	ND	0.024	mg/Kg-dry	1	04/28/08 15:08
Styrene	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
1,1,1,2-Tetrachloroethane	A	ND	0.012	mg/Kg-dry	1	04/28/08 15:08
1,1,2,2-Tetrachloroethane	Α	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
Tetrachloroethene	Ā	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
Toluene	Ā	0.016	0.0061	mg/Kg-dry	1	04/28/08 15:08
1,1,1-Trichloroethane	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
1,1,2-Trichloroethane	A	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08
Trichloroethene	Ā	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08



Date:

Thursday, May 01, 2008

Client:

Vam Labs

**Client Project:** 

4802-04 Kennedy / East Chicago, IN

Client Sample ID:

4802-3

Work Order / ID:

ME0804959-03

**Collection Date:** 

04/23/08 09:50

Sample Description: Sample Matrix:

Solid

Date Received:

04/24/08 14:15

**Analyses** 

ST

RL

Analyses		ST	Result	RL	Qual	Units	DF	Analyzed	
		- · · · · · · · · · · · · · · · · · · ·							
VOLATILE ORGANICS	Method:	SW8260B		P	rep Date/Ti	me:		Analyst: ML	т.

OLATILE ORGANICS	Method: SW8260	Method: SW8260B			Prep Date/Time:				
Trichlorofluoromethane	A		ND,	0.012	mg/Kg-dry	1	04/28/08 15:08		
Vinyl Acetate	Ā		ND,	0.012	mg/Kg-dry	1	04/28/08 15:08		
Vinyl chloride	Ā		ND,	0.012	mg/Kg-dry	1	04/28/08 15:08		
m,p-Xylene	, A		ND,	0.0061	mg/Kg-dry	1	04/28/08 15:08		
o-Xylene	A	1	ND	0.0061	mg/Kg-dry	1	04/28/08 15:08		
Total Xylenes	Ā		ND	0.0061	mg/Kg-dry	1	04/28/08 15:08		
Surr: 4-Bromofluorobenzene	S	86.9		57.4-135	%REC	1	04/28/08 15:08		
Surr: Dibromofluoromethane	S	110	 !	63.5-139	%REC	1	04/28/08 15:08		
Surr: 1,2-Dichloroethane-d4	S	114		51.7-162	%REC	1	04/28/08 15:08		
Surr: Toluene-d8	s	103	· · · · · · · · · · · · · · · · · · ·	66.6-143	%REC	1	04/28/08 15:08		

CORROSIVITY BY PH	Method: SW9045C	Prep Date/Time:	Analyst: RJC
pH	A 8.7	0.1 pH Units	1 04/28/08 20:45
PERCENT MOISTURE	Method: 2540B_18ED	Prep Date/Time:	Analyst: SMA



Date:

Thursday, May 01, 2008

Client:

Vam Labs

**Client Project:** 

4802-04 Kennedy / East Chicago, IN

Client Sample ID:

4802-4

Work Order / ID:

ME0804959-04

Sample Description: Sample Matrix:

Collection Date:

04/23/08 10:30

Solid

Date Received:

04/24/08 14:15

**Analyses** 

ST

Result

RL Qual Units DF

Analyzed

ESTICIDES/PCBS	Method:	SW8081	A/8082		Prep Date/Time: 04/29/08 06:42 Analyst: JLV					
4,4´-DDD	Trends of the same succession of the same of	A	1	ND	0.035	mg/Kg-dry	1	04/30/08 00:3		
4,4'-DDE		Ā		ND	0.035	mg/Kg-dry	1	04/30/08 00:3		
4,4'-DDT		Ā		ND,	0.035	mg/Kg-dry	1	04/30/08 00:3		
Aldrin		A		ND,	0.035	mg/Kg-dry	1	04/30/08 00:3		
Alpha-BHC	manufacture of the second of the second	A		ND,	0.0071	mg/Kg-dry	1	04/30/08 00:3		
Beta-BHC		Ā		ND	0.018	mg/Kg-dry	1	04/30/08 00:3		
Chlordane		Α	1	ND,	0.35	mg/Kg-dry	1	04/30/08 00:3		
delta-BHC	an and the second section of the second section of the second	A	1	ND	0.035	mg/Kg-dry	1	04/30/08 00:3		
Dieldrin	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TO THE OWNER,	A		ND,	0.0017	mg/Kg-dry	1	04/30/08 00:3		
Endosulfan I		Ā	₹ r	ND	0.035	mg/Kg-dry	1	04/30/08 00:3		
Endosulfan II		;- <u>A</u> .		ND	0.035	mg/Kg-dry	1	04/30/08 00:3		
Endosulfan Sulfate	**********	Ã		ND	0.035	mg/Kg-dry	1	04/30/08 00:3		
Endrin	** * *	, A	i	ND	0.035	mg/Kg-dry	1	04/30/08 00:3		
Endrin Aldehyde		Α	•	ŇĎ	0.035	mg/Kg-dry	1	04/30/08 00:3		
Endrin Ketone		Ā		ND,	0.035	mg/Kg-dry	ì	04/30/08 00:3		
Gamma-BHC		Ā	<u> </u>	ND	0.0071	mg/Kg-dry	1	04/30/08 00:3		
Heptachlor		Ā	ver -	ND,	0.035	mg/Kg-dry	1	04/30/08 00:3		
Heptachlor Epoxide	entresant to a proper to the	Ā	;	ND	0.035	mg/Kg-dry	1	04/30/08 00:3		
Methoxychlor		Ā		ND,	0.035	mg/Kg-dry	1	04/30/08 00:3		
Toxaphene		Ā	1	ND	0.35	mg/Kg-dry	1	04/30/08 00:3		
Aroclor 1016	· where the part of the trans	A	1	ND,	0.035	mg/Kg-dry	1	04/30/08 00:3		
Aroclor 1221		Ā	1	ND	0.035	mg/Kg-dry	1	04/30/08 00:3		
Aroclor 1232		Ā	1	ND,	0.035	mg/Kg-dry	1	04/30/08 00:3		
Aroclor 1242		A		ND	0.035	mg/Kg-dry	1	04/30/08 00:3		
Aroclor 1248	#- <del>*- *- *- *- *- *- *- *- *- *- *- *- *- *</del>	A	· · · · · · · · · · · · · · · · · · ·	ND	0.035	mg/Kg-dry	1	04/30/08 00:3		
Aroclor 1254	***	Ä		ÑĎ,	0.035	mg/Kg-dry	1	04/30/08 00:3		
Aroclor 1260		Ā		ND	0.035	mg/Kg-dry	1	04/30/08 00:3		
Aroclor 1262		A		ND	0.035	mg/Kg-dry	1	04/30/08 00:3		
Aroclor 1268	to market and control of the	Ä	; ~	ND,	0.035	mg/Kg-dry	1	04/30/08 00:3		
Surr: Tetrachloro-m-xylen	e	−¦ s̄	70.0	اوا بد سرد. ا ا	5-165	%REC	1	04/30/08 00:3		
Surr: Decachlorobiphenyl	mente de la competita de la co	Š	95.0	!	5-222	%REC	1	04/30/08 00:3		

TOTAL METALS	Method: \$	SW6010B Prep Date/Time: 04/25/08 10:00 Analyst: A							
Arsenic		A	1.1		0.51		mg/Kg-dry	1	04/25/08 19:18
Barium		Ā	5.2		0.10	2012	mg/Kg-dry	1	04/25/08 19:18
Cadmium		Ā		ND	0.10		mg/Kg-dry	1	04/25/08 19:18
Chromium		A	2.3	.,	0.15		mg/Kg-dry	1	04/25/08 19:18
Lead		Á	7.3	• • •	0.38		mg/Kg-dry	Ĩ	04/25/08 19:18
Selenium		Ä	ĺ	ND	1.5		mg/Kg-dry	1	04/25/08 19:18
Silver		A	. —	ND	0.51		mg/Kg-dry	1	04/25/08 19:18



Date:

Thursday, May 01, 2008

Client:

Vam Labs

4802-4

Client Project:

Sample Matrix:

4802-04 Kennedy / East Chicago, IN

Client Sample ID:

Sample Description:

Solid

Work Order / ID: Collection Date: ME0804959-04

Date Received:

04/23/08 10:30 04/24/08 14:15

Analyses ST Result RL Qual Units DF Analyzed

 TOTAL METALS
 Method:
 SW7471A
 Prep Date/Time: 04/25/08 09:30 Analyst: AVC

 Mercury
 A
 ND
 0.033 mg/Kg-dry | 1 04/25/08 13:12

A-Bromophenyl phenyl ether	SEMIVOLATILE ORGANICS	Method: SW8270C		Prep D	ate/Time: <b>04/29/08</b>	13:1	3 Analyst: BEM
Acenaphthene	4-Bromophenyl phenyl ether	, A	ND	0.35	mg/Kg-dry	1	04/30/08 00:56
Acetaphthylene	Bis(2-ethylhexyl)phthalate	A	ND,	0.35	mg/Kg-dry	1	04/30/08 00:56
Acetophenone	Acenaphthene	A	ND,	0.35	mg/Kg-dry	1	04/30/08 00:56
Aniline	Acenaphthylene	A	ND	0.35	mg/Kg-dry	1	04/30/08 00:56
Anthracene	Acetophenone	A	ND,	0.35	mg/Kg-dry	1	04/30/08 00:56
Benzolalanthracene	Aniline	A	ND,	0.35	mg/Kg-dry	1	04/30/08 00:56
Benzo[a]anthracene	Anthracene	Ã	ND,	0.35	mg/Kg-dry	ī	04/30/08 00:56
Benzo a pyrene	Benzidine	A	ÑD	1.7	mg/Kg-dry	1	04/30/08 00:56
Benzo b  fluoranthene	Benzo[a]anthracene	Ā	ND	0.35	mg/Kg-dry	1	04/30/08 00:56
Benzolg,h,i]perylene	Benzo[a]pyrene	A	ND	0.35	mg/Kg-dry	1	04/30/08 00:56
Benzo K fliuranthene	Benzo[b]fluoranthene	Ā	ND	0.35	mg/Kg-dry	1	04/30/08 00:56
Benzoic acid	Benzo[g,h,i]perylene	Ä	ND,	0.35	mg/Kg-dry	1	04/30/08 00:56
Benzyl alcohol	Benzo[k]fluoranthene	À	ND;	0.35	mg/Kg-dry	1	04/30/08 00:56
Bis(2-chloroethoxy)methane	Benzoic acid	Ā	ND	1.7	mg/Kg-dry	1	04/30/08 00:56
Bis(2-chloroethyl)ether	Benzyl alcohol	A	ND	0.71	mg/Kg-dry	1	04/30/08 00:56
Bis(2-chloroethyl)ether	Bis(2-chloroethoxy)methane	Ä	ÑD	0.35	mg/Kg-dry	ī	04/30/08 00:56
Butyl benzyl phthalate	Bis(2-chloroethyl)ether	Ā	ND	0.35	mg/Kg-dry	1	04/30/08 00:56
Carbazole         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           4-Chloro-3-methylphenol         A         ND         0.71         mg/Kg-dry         1         04/30/08 00:56           4-Chloroaniline         A         ND         0.71         mg/Kg-dry         1         04/30/08 00:56           2-Chlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           2-Chlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           2-Chlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           4-Chlorophenyl phenyl ether         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Chrysene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Chrysene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Dibenz[a,h]anthracene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Dibenz[a,h]anthracene         A         ND         0.35         mg/Kg-dry<	2,2'-oxybis(1-chloropropane)		ND	0.35	mg/Kg-dry	1	04/30/08 00:56
4-Chloro-3-methylphenol         A         ND         0.71         mg/Kg-dry         1         04/30/08 00:56           4-Chloroaniline         A         ND         0.71         mg/Kg-dry         1         04/30/08 00:56           2-Chlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           2-Chlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           4-Chlorophenyl phenyl ether         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           4-Chlorophenyl phenyl ether         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           4-Chlorophenyl phenyl ether         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Chrysene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Chrysene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Dibenz[a,h]anthracene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Dibenz[a,h]anthracene         A         ND         0	Butyl benzyl phthalate		ND,	0.35	mg/Kg-dry	1	04/30/08 00:56
4-Chloroaniline	Carbazole	Ā	ND	0.35	mg/Kg-dry	ī	04/30/08 00:56
2-Chloronaphthalene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           2-Chlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           4-Chlorophenyl phenyl ether         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Chrysene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Dibenz[a,h]anthracene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Dibenzofuran         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           1,2-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           1,3-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           1,4-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           3,3'-Dichlorobenzidine         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           2,4-Dichlorophenol         A         ND         0.35 <td>4-Chloro-3-methylphenol</td> <td>A</td> <td>ND</td> <td>0.71</td> <td>mg/Kg-dry</td> <td>1</td> <td>04/30/08 00:56</td>	4-Chloro-3-methylphenol	A	ND	0.71	mg/Kg-dry	1	04/30/08 00:56
2-Chlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           4-Chlorophenyl phenyl ether         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Chrysene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Dibenz[a,h]anthracene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Dibenzofuran         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           1,2-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           1,3-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           1,4-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           3,3'-Dichlorobenzidine         A         ND         1.7         mg/Kg-dry         1         04/30/08 00:56           2,4-Dichlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           2,6-Dichlorophenol         A         ND         0.35	4-Chloroaniline	Ā	ND,	0.71	mg/Kg-dry	1	04/30/08 00:56
4-Chlorophenyl phenyl ether	2-Chloronaphthalene	Α	ND	0.35	mg/Kg-dry	1	04/30/08 00:56
Chrysene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Dibenz[a,h]anthracene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Dibenzofuran         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           1,2-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           1,3-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           1,4-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           3,3'-Dichlorobenzidine         A         ND         1.7         mg/Kg-dry         1         04/30/08 00:56           2,4-Dichlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           2,6-Dichlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Diethyl phthalate         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56	2-Chlorophenol	Ā	ND.	0.35	mg/Kg-dry	ì,	04/30/08 00:56
Chrysene         A         ND,         0.35         mg/Kg-dry         1         04/30/08 00:56           Dibenz[a,h]anthracene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Dibenzofuran         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           1,2-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           1,3-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           1,4-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           3,3'-Dichlorobenzidine         A         ND         1.7         mg/Kg-dry         1         04/30/08 00:56           2,4-Dichlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           2,6-Dichlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Diethyl phthalate         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56	4-Chlorophenyl phenyl ether	Ā	ND,	0.35	mg/Kg-dry	1	04/30/08 00:56
Dibenzofuran         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           1,2-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           1,3-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           1,4-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           3,3'-Dichlorobenzidine         A         ND         1.7         mg/Kg-dry         1         04/30/08 00:56           2,4-Dichlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           2,6-Dichlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Diethyl phthalate         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Dimethyl phthalate         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56		Â	ND,	0.35	mg/Kg-dry	1	04/30/08 00:56
1,2-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           1,3-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           1,4-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           3,3'-Dichlorobenzidine         A         ND         1.7         mg/Kg-dry         1         04/30/08 00:56           2,4-Dichlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           2,6-Dichlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Diethyl phthalate         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Dimethyl phthalate         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56	Dibenz[a,h]anthracene	Ā	ND,	0.35	mg/Kg-dry	1	04/30/08 00:56
1,3-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           1,4-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           3,3'-Dichlorobenzidine         A         ND         1.7         mg/Kg-dry         1         04/30/08 00:56           2,4-Dichlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           2,6-Dichlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Diethyl phthalate         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Dimethyl phthalate         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56	Dibenzofuran	( A	ND	0.35	mg/Kg-dry	1	04/30/08 00:56
1,4-Dichlorobenzene         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           3,3'-Dichlorobenzidine         A         ND         1.7         mg/Kg-dry         1         04/30/08 00:56           2,4-Dichlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           2,6-Dichlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Diethyl phthalate         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Dimethyl phthalate         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56	1,2-Dichlorobenzene	Ā	ND,	0.35	mg/Kg-dry	1	04/30/08 00:56
3,3´-Dichlorobenzidine	1,3-Dichlorobenzene	A	ND	0.35	mg/Kg-dry	1	04/30/08 00:56
3,3 - Dichlorobenzidine	1,4-Dichlorobenzene	A	ND	0.35	mg/Kg-dry	1	04/30/08 00:56
2,6-Dichlorophenol         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Diethyl phthalate         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56           Dimethyl phthalate         A         ND         0.35         mg/Kg-dry         1         04/30/08 00:56		Â	ND	1.7	mg/Kg-dry	1	04/30/08 00:56
Diethyl phthalate	2,4-Dichlorophenol	A	ND	0.35	mg/Kg-dry	1	04/30/08 00:56
Dimethyl phthalate	2,6-Dichlorophenol	Ā	ND	0.35	mg/Kg-dry	1	04/30/08 00:56
Dimethyl phthalate	Diethyl phthalate	A	ND	0.35	mg/Kg-dry	1	04/30/08 00:56
	Dimethyl phthalate	Ā	ND	0.35	mg/Kg-dry	1	04/30/08 00:56
		Ā	ND.	0.35	mg/Kg-dry	1	04/30/08 00:56



Date:

Thursday, May 01, 2008

DF

Client:

Vam Labs

Client Project:

4802-04 Kennedy / East Chicago, IN

Client Sample ID:

Sample Description:

Sample Matrix:

4802-4

Solid

Work Order / ID:

ME0804959-04

Collection Date: Date Received: 04/23/08 10:30 04/24/08 14:15

Analyzed

Analyses ST Result RL Qual Units

Di-n-butyl phthalate	A	1	ND.	0.35	mg/Kg-dry	1	04/30/08 00:56
Di-n-octyl phthalate	Ā		ND	0.35	mg/Kg-dry	~1 ~	04/30/08 00:56
4,6-Dinitro-2-methylphenol			ND	1.7	mg/Kg-dry	1	04/30/08 00:56
2,4-Dinitrophenol	Ā		ND.	1.7	mg/Kg-dry	1	04/30/08 00:56
2,4-Dinitrotoluene	A	ļ	ND.	0.35	mg/Kg-dry	1	04/30/08 00:56
2,6-Dinitrotoluene	Ā	·	ND	0.35	mg/Kg-dry	1	04/30/08 00:56
1,2-Diphenyl-hydrazine	Ā		ND.	0.35	mg/Kg-dry	1	04/30/08 00:56
Fluoranthene	A		ND,	0.35	mg/Kg-dry	1	04/30/08 00:5
Fluorene	Ā	}	ND	0.35	mg/Kg-dry	1	04/30/08 00:5
Hexachlorobenzene	Ā	.} 1	ND)	0.35	mg/Kg-dry	1	04/30/08 00:5
Hexachlorobutadiene	Ā		ND	0.35	mg/Kg-dry	ĩ `	04/30/08 00:5
Hexachlorocyclopentadiene	Α	.; <del></del> -	ND	0.35	mg/Kg-dry	1	04/30/08 00:5
Hexachloroethane	Ā	4	ND.	0.35	mg/Kg-dry	1	04/30/08 00:5
Indeno[1,2,3cd]pyrene	Α		ND	0.35	mg/Kg-dry	1	04/30/08 00:5
Isophorone	Ā	i	ND	0.35	mg/Kg-dry	1	04/30/08 00:5
2-Methylnaphthalene	Ä		ND	0.35	mg/Kg-dry	1	04/30/08 00:5
2-Methylphenol	i Ā		ND	0.35	mg/Kg-dry	1	04/30/08 00:5
3/4-Methylphenol	Ä		ND,	0.35	mg/Kg-dry	1	04/30/08 00:5
2-Nitroaniline	Ā	: • • • • • • • • • • • • • • • • • • •	ND	1.7	mg/Kg-dry	1	04/30/08 00:5
3-Nitroaniline	Ä		ND,	1.7	mg/Kg-dry	1	04/30/08 00:5
4-Nitroaniline	A		ND,	1.7	mg/Kg-dry	1	04/30/08 00:5
2-Nitrophenol	Α	· · · · · · · · · · · · · · · · · · ·	ÑĎ	0.35	mg/Kg-dry	1	04/30/08 00:5
4-Nitrophenol	Ā	ļ-:	ND,	1.7	mg/Kg-dry	1	04/30/08 00:5
N-Nitrosodi-n-propylamine	Α		ND	0.35	mg/Kg-dry	1	04/30/08 00:5
N-Nitrosodimethylamine	Ā	i	ND	0.35	mg/Kg-dry	1	04/30/08 00:5
N-Nitrosodiphenylamine	À		ÑĎ	0.35	mg/Kg-dry	1	04/30/08 00:5
Naphthalene	Ä	{  -	ND	0.35	mg/Kg-dry	1	04/30/08 00:5
Nitrobenzene	Ã	· -	ND	0.35	mg/Kg-dry	1	04/30/08 00:5
Pentachlorophenol	Ã	j · · ·	ND	1.7	mg/Kg-dry	1	04/30/08 00:5
Phenanthrene	À	į	ÑĎ	0.35	mg/Kg-dry	1	04/30/08 00:5
Phenol	A		ÑĎ	0.35	mg/Kg-dry	1	04/30/08 00:5
Pyrene	Ä		ND	0.35	mg/Kg-dry	1	04/30/08 00:5
Pyridine	A		ND	0.35	mg/Kg-dry	1	04/30/08 00:5
1,2,4-Trichlorobenzene	Á		ND	0.35	mg/Kg-dry	ī	04/30/08 00:5
2,4,5-Trichlorophenol	Ä	i ~	ÑĎ	1.7	mg/Kg-dry	1	04/30/08 00:5
2,4,6-Trichlorophenol	Ã		ΝĎ	0.35	mg/Kg-dry	1	04/30/08 00:5
Total Cresol	Ā	1	ND	0.35	mg/Kg-dry	1	04/30/08 00:5
Surr: Nitrobenzene-d5	s	53.6	1	10-139	%REC	1	04/30/08 00:5
Surr: 2-Fluorobiphenyl	Š	75.1		10-124	%REC	1	04/30/08 00:5
Surr: Terphenyl-d14	Š	70.0	!	10-157	%REC	ĩ	04/30/08 00:5
Surr: Phenol-d5	S	52.5		10-97.5	%REC	1	04/30/08 00:5



Vam Labs

Client: Client Project:

Client Sample ID: 4802-4

4802-04 Kennedy / East Chicago, IN

Sample Description:

Sample Matrix: Solid Work Order / ID: **Collection Date:** 

Date:

ME0804959-04

Thursday, May 01, 2008

Date Received:

04/23/08 10:30 04/24/08 14:15

ST **Analyses** Result RLQual Units DF Analyzed

SEMIVOLATILE ORGANICS Method: S	Method: SW8270C			Prep Date/Time: 04/29/08 13:13 Analys					
Surr: 2-Fluorophenol	S	56.6	10-91.4	,	%REC	1	04/30/08 00:56		
Surr: 2,4,6-Tribromophenol	S	72.2	10-107	10	%REC	1	04/30/08 00:56		

VOLATILE ORGANICS	Method: SW8260B		Prep D	ate/Time:		Analyst: MLT
Acetone	, A ,	ND,	0.054	mg/Kg-dry	1	04/28/08 15:43
Acrolein	A	ND	0.11	mg/Kg-dry	1	04/28/08 15:43
Acrylonitrile	A	ND	0.11	mg/Kg-dry	1	04/28/08 15:43
Benzene	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
Bromodichloromethane	, A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
Bromoform	Ä	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
Bromomethane	A	ND	0.011	mg/Kg-dry	ĩ	04/28/08 15:43
2-Butanone	Ā	ND	0.011	mg/Kg-dry	1	04/28/08 15:43
Carbon Disulfide	A	ND,	0.011	mg/Kg-dry	1	04/28/08 15:43
Carbon tetrachloride	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
Chlorobenzene	Ä	ND,	0.0054	mg/Kg-dry	1	04/28/08 15:43
Chloroethane	Ā	ND,	0.011	mg/Kg-dry	1	04/28/08 15:43
Chloroform	Ä	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
Chloromethane	Ā	ND	0.011	mg/Kg-dry	1	04/28/08 15:43
Dibromochloromethane	Α	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
1,1-Dichloroethane	Ā	ND,	0.0054	mg/Kg-dry	1	04/28/08 15:43
1,2-Dichloroethane	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
1,1-Dichloroethene	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
cis-1,2-Dichloroethene	Å	ÑĎ	0.0054	mg/Kg-dry	1	04/28/08 15:43
trans-1,2-Dichloroethene	Ā	ND,	0.0054	mg/Kg-dry	1	04/28/08 15:43
1,2-Dichloropropane	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
cis-1,3-Dichloropropene	Ā	ÑĎ	0.0054	mg/Kg-dry	1	04/28/08 15:43
trans-1,3-Dichloropropene	A	ND,	0.0054	mg/Kg-dry	1	04/28/08 15:43
Ethylbenzene	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
2-Hexanone	; A	ND	0.011	mg/Kg-dry	1	04/28/08 15:43
4-Methyl-2-Pentanone	Ā	ND	0.011	∖mg/Kg-dry	1	04/28/08 15:43
Methyl-t-Butyl Ether	A	ND,	0.0054	mg/Kg-dry	1	04/28/08 15:43
Methylene chloride	Ā	ND	0.021	mg/Kg-dry	1	04/28/08 15:43
Styrene	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
1,1,1,2-Tetrachloroethane	Ä	ND	0.011	mg/Kg-dry	1	04/28/08 15:43
1,1,2,2-Tetrachloroethane	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
Tetrachloroethene	A	ND,	0.0054	mg/Kg-dry	1	04/28/08 15:43
Toluene	A	.012	0.0054	mg/Kg-dry	1	04/28/08 15:43
1,1,1-Trichloroethane	A	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
1,1,2-Trichloroethane	Ā	ND	0.0054	mg/Kg-dry	1	04/28/08 15:43
Trichloroethene	Ā	ND,	0.0054	mg/Kg-dry	1	04/28/08 15:43



Date:

Thursday, May 01, 2008

Client:

Vam Labs

4802-4

Client Project:

Sample Matrix:

4802-04 Kennedy / East Chicago, IN

Client Sample ID:

Sample Description:

Solid

Work Order / ID:

ME0804959-04

**Collection Date:** 

04/23/08 10:30

Date Received:

04/24/08 14:15

Analyses

ST

Result

RL

Qual

Units DF

Analyzed

OLATILE ORGANICS	Method: SW82601	3	Pr	ep Date/Time:		Analyst: MLT
Trichlorofluoromethane	; A	N	0.011	mg/Kg-dry	1	04/28/08 15:43
Vinyl Acetate	Ä	N	0.011	mg/Kg-dry	` ï ¯	04/28/08 15:43
Vinyl chloride	A	N	0.011	mg/Kg-dry	1	04/28/08 15:43
m,p-Xylene	A	N	<b>D</b> 0.0054	mg/Kg-dry	1	04/28/08 15:43
o-Xylene	· Å A	N	D 0.0054	mg/Kg-dry	1	04/28/08 15:43
Total Xylenes	Ā	N	D 0.0054	mg/Kg-dry	1	04/28/08 15:43
Surr: 4-Bromofluorobenzene	S	82.7	57.4-135	%REC	1	04/28/08 15:43
Surr: Dibromofluoromethane	S	109	63.5-139	%REC	1	04/28/08 15:43
Surr: 1,2-Dichloroethane-d4	; S	114	51.7-162	%REC	1	04/28/08 15:43
Surr: Toluene-d8	s s	108	66.6-143	%REC	1	04/28/08 15:43

CORROSIVITY BY PH	Method: SW9045C	Prep Date/Time:	Analyst: <b>RJC</b> . 04/28/08 20:45
PERCENT MOISTURE	Method: 2540B_18ED	Prep Date/Time:	Analyst: GBZ
Percent Moisture	A 6.6	0.10 WT% 1	04/29/08 13:48



#### FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA = Not Analyzed N/A = Not Applicable

mg/L = Milligrams per Liter (ppm) ug/L = Micrograms per Liter (ppb) cfu = Colony Forming Unit
mg/Kg = Milligrams per Kilogram (ppm) ug/Kg = Micrograms per Kilogram (ppb) ng/L = Nanograms per Liter (ppt)

U = Undetected

J = Analyte concentration detected between RL and MDL (Metals / Organics)

B = Detected in the associated Method Blank at a concentration above the routine PQL/RL

b = Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine PQL/RL

D = Surrogate recoveries are not calculated due to sample dilution

ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if listed)

E = Value above quantitation range

H = Analyte was prepared and/or analyzed outside of the analytical method holding time

I = Matrix Interference

R = RPD outside accepted recovery limits
S = Spike recovery outside recovery limits

Surr = Surrogate

DF = Dilution Factor RL = Reporting Limit ST = Sample Type MDL = Method Detection Limit

#### **SAMPLE TYPES**

A = Analyte

I = Internal Standard

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)

#### **OC SAMPLE IDENTIFICATIONS**

Ongoing Precision and MBLK = Method Blank **ICSA** Interference Check Standard "A" OPR Recovery Standard DUP = Method Duplicate **ICSAB** Interference Check Standard "AB" LCS Laboratory Control Sample LCSD Laboratory Control Sample Duplicate MS = Matrix Spike MSD Matrix Spike Duplicate **ICB** = Initial Calibration Blank CCB Continuing Calibration Blank **ICV** Initial Calibration Verification CCV Continuing Calibration Verification PDS SD Serial Dilution Post Digestion Spike

#### **CERTIFICATIONS**

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
- Illinois Department of Public Health for the microbiological analysis of drinking water (registry #175458)
- Indiana DEM approved support laboratory for solid waste and wastewater analyses
- Indiana SDH for the chemical analysis of drinking water (lab #C-45-02)
- Indiana SDH for the microbiological analysis of drinking water (lab #M-45-08)
- Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #0061)
- North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations (certificate #597)
- Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

#### MICROBAC LOCATIONS, SERVICE CENTERS (SC) AND SATELLITE OFFICES (Sat)

Baltimore Division - Baltimore, MD Kentucky Division - Louisville, KY New Castle Division - New Castle, PA Camp Hill Division - Camp Hill, PA Pittsburgh Division - Warrendale, PA Kentucky Division (Sat) - Evansville, IN Camp Hill Division (SC) - Pittston, PA Richmond Division - Richmond, VA Kentucky Division (Sat) - Lexington, KY Chicagoland Division - Merrillville, IN South Carolina Division - New Ellenton, SC Kentucky Division (Sat) - Paducah, KY Chicagoland Division (SC) - Indianapolis, IN Knoxville Division - Maryville, TN South Jersey Division - Turnersville, NJ Corona Division - Corona, CA Massachusetts Division - Marlborough, MA Southern Headquarters - Poquoson, VA Erie Division - Erie, PA Microbac Corporate Office - Wexford, PA Southern Testing Division - Wilson, NC Fayetteville Division - Fayetteville, NC Microbac NY - Cortland Office - Cortland, NY Southern Testing Division (Sat) - Greensboro, NC Hauser Division - Boulder, CO Microbac NY - Waverly Office - Waverly, NY Venice Division - Venice, FL.



## **COOLER INSPECTION**

Client Name Vam L	abs			Date / Time	Received:	4/24/2008 2:15:00 PM
Work Order Number	ME080495	9		Received by	DPP	
Checklist completed	by DPP	4/24/2008 2:29:48 F	PM.	Reviewed by	RJM	4/28/2008 11:53:33 AM
		Carrier	name <u>Client Delivere</u>	<u>d</u>		
After-Hour Arrival?			Yes	☐ No	<b>V</b>	
Shipping container/co	ooler in good c	ondition?	Yes	<b>✓</b> No	No	t Present
Custody seals intact			Yes	☐ No	No 🗌	t Present 🗹
Custody seals intact	on sample bott	tles?	Yes	☐ No	No:	t Present
Chain of custody pre	sent?		Yes	<b>✓</b> No		
Chain of custody incl	uded sufficient	client identification?	Yes	<b>✓</b> No		
Chain of custody incl	uded sufficient	sample collector information	on? Yes	<b>✓</b> No		
Chain of custody incl	uded a sample	description?	Yes	<b>☑</b> No		
Chain of custody agr			Yes	<b>✓</b> No		
Chain of custody idea	ntified the appr	opriate matrix?	Yes	<b>✓</b> No		
Chain of custody incl			Yes	<b>✓</b> No		
Chain of custody incl	uded time of co	ollection?	Yes	<b>☑</b> No		
Chain of custody idea	ntified the appr	opriate number of containe	rs? Yes	<b>☑</b> No		
Samples in proper co	ontainer/bottle?	)	Yes	<b>✓</b> No		
Sample containers in	itact?		Yes	<b>✓</b> No		
Sufficient sample vol	ume for indicat	ed test?	Yes	✓ No		
All samples received	within holding	time?	Yes	<b>✓</b> No		
If samples are presen	rved, are the pr	reservatives identified?	Yes			
Samples properly pre	eserved?		Yes	<b>☑</b> No		
		If No, adjusted by?	[	Date/Time		
Chain of custody incl	uded the reque	ested analyses?	Yes	<b>✓</b> No		
Chain of custody sign	ned when relind	quished and received?	Yes	<b>✓</b> No		
Samples received or	ice?		Yes	<b>✓</b> No		
	Co	ntainer/Temp Blank tempe	ratures Cooler	Temp		
			1	_ 5 °C	_	_
VOA vials for aqueou	ıs samples hav	ve zero headspace?	lo VOA vials submitted	$\checkmark$	Yes 🗌	No 🗌
ANY "NO" EVALUA	TION (excludi	ng After-Hour Receipt) RE	QUIRES CLIENT NOT	IFICATION.		
General Comments:	•					
Sample ID	Client Sa	ample ID		Comments		<del></del>
ME0804959-01A	4802-1	Report in Dry W	eight			
ME0804959-02A	4802-2	Report in Dry W				
ME0804959-03A	4802-3	Report in Dry W	eight			
ME0804959-04A	4802-4	Report in Dn/ W	eight			

Thursday, May 01, 2008

Date:

Microbac	N 1 1	
	Microbac	

Samples Submitted to:

250 West 84th Drive Merrillville, IN 46410

> Tel: 219-769-8378 Fax: 219-769-1664

[] 5713 West 85th Street Indianapolis, IN 46278

> Tel: 317-872-1375 Fax: 317-872-1379

Chain of Custody Record

**Number** 83448

									Instructions on back											
lient Name VAM Labs			Project 4802-04 Kemnedy							Tur	rnaround Time Report Ty						/pe			
	7.		Locat	cation East Chicago IN II				[] Routine (7 working days)					[] Results Only					[] Level II		
ity, State, Zip Munster, /N 46	32	<u> </u>	PO #						[]RUS						[] Level III			[]	Level II	I CLP-like
ontact Dragan Viestica			Comp	Compliance Monitoring? [] Yes			1) <b>M</b> No		Apo	30 08 (needed by)			ַנ <u>ו</u> נו	[] Level IV			Level (\	/ CLP-like		
elephone # 2(9-924-7877			(1)Ag	(1)Agency/Program					(needed by)											
ampled by (PRINT) Dragan Viestice	<u>.                                    </u>		s	ample	er Signature		Lan	rn I	at			Samp	ler Pi	hone #		219	-929	1-78	77	
end Report via [] Mail [] Telephone [] Fa	ax (fax	#)							[] e-mai	il (add	dress)									
* Matrix Types: Soil/Solid (S), Sludge, Oi ** Preservative Types: (1) HNO3, (2) H2SO4, (3)																) Unpi	reserve	ed		
Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Reque Analys Presen Types	sted ses	Total Manage	<u></u>		7	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	8/				For Lat	Use Only
4802-1	5		X		4/23/08	9:10am		<u> </u>		X	¥	¥	×	Y	X					
4802-2	S		X			9:30am												ļ.		
4802-3	S		У			9:50, am														
4802-4	S		X			10:3dan				1	*				V					
																			•	
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	[] Nor	1-Haze	ardous		Radioactive	·		ple Disp	osition					priate		eturn	[] Aı			
Comments			Relin	quish	ed By (signa	ature)	1/	Time	2:0	. 3	Rece	lved	By (si	gnatu	re)			Date	Time	
			Relinquished By (signature)				4/24/08 2:15pm Date/Time			Received By (signature)					re)			Date/	Time	
				Relinquished By (signature)				Date/Time			Received for Lab By (signature)						Date/Time 4-24-08/10			
Sample temperature upon receipt in degrees C = rev. 11/04/04					<u></u>			_	<u> </u>	<i>/ (</i>	2	10	V	Pag	e 1	of	7	7 19		
104. 11/04/04																ray	- I	01	•	-